## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 September 2005 (15.09.2005)

**PCT** 

## (10) International Publication Number WO 2005/085603 A1

(51) International Patent Classification<sup>7</sup>: F17D 1/04, F01D 15/10

F01K 27/00,

English

(21) International Application Number:

PCT/CA2005/000359

(22) International Filing Date: 9 March 2005 (09.03.2005)

(25) Filing Language:

(26) Publication Language: English

(30) Priority Data:

2,461,086 9 March 2004 (09.03.2004) CA

(71) Applicant (for all designated States except US): TRI GAS & OIL TRADE SA. [—/CH]; 9, rue Massot, 1206 Geneve (CH).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LOURENCO, Jose [CA/CA]; 146 Grace Street, Toronto, Ontario M6J 2S2

(74) Agent: THOMPSON, Douglas, B.; c/o Thompson Lambert LLP, 10328 - 81 Avenue, Suite #200, Edmonton, Alberta T6E 1X2 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

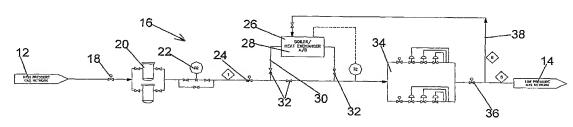
## Published:

with international search report

with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF POWER GENERATION FROM PRESSURE CONTROL STATIONS OF A NATURAL GAS DISTRIBUTION SYTEM



(57) Abstract: A method is described of generating power from a pressure control station of a natural gas distribution system. A first step involves channelling natural gas entering the pressure control station into a turbine (52) which is powered by expansion of the natural gas as the pressure of the natural gas is reduced. A second step involves capturing the output of the turbine (52) for useful purposes.

2005/085603 A1